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## PATENT COOPERATION TREATY

### PCT

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 20302387/SJ	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/SG2003/000276	International filing date (day/month/year) 21 November 2003	(Earliest) Priority Date (day/month/year) 21 November 2003
Applicant AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

#### Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (See Box II).

4. With regard to the title,  the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,  the text is approved as submitted by the applicant

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1

as suggested by the applicant

None of the figures

because the applicant failed to suggest a figure

because this figure better characterizes the invention

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SG2003/000276

### A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: G10G 3/04, G10L 11/04, G11B 31/00, G06F 17/00, G10H 7/00

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
USPTO and WPAT. Keywords include melody, music, time, hum and pitch.

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2001/69575 A1 (Perception Digital Technology (BVI) Ltd) 20 September 2001 - whole document	26
X	WO 2003/028004 A2 (The Regents of the University of Michigan) 3 April 2003 - whole document	26
X	US 6121530 A (Sonoda) 19 September 2000 - whole document	26

Further documents are listed in the continuation of Box C

See patent family annex

\* Special categories of cited documents:

"A" Document defining the general state of the art which is not considered to be of particular relevance

"B" Earlier application or patent but published on or after the international filing date

"L" Document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" Document referring to an oral disclosure, use, exhibition or other means

"P" Document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
27 January 2004

Date of mailing of the international search report

30 JAN 2004

Name and mailing address of the ISA/AU

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International application No.

PCT/SG2003/000276

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5739451 A (Winksy et al) 14 April 1998 - whole document	26
X	WO 2001/50354 A1 (Woo) 12 July 2001 - whole document	26
X	LU et al. 'A New Approach to Query by Humming in Music Retrieval' in ICME 2001, Toyko, August 2001. (Retrieved on 23 January 2004) Retrieved from the Internet <URL: <a href="http://research.microsoft.com/asia/dload_files/group/mcomputing/ICME01_QB_H_LieLu-4th.pdf">http://research.microsoft.com/asia/dload_files/group/mcomputing/ICME01_QB_H_LieLu-4th.pdf</a> > - whole document	26

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Information on patent family members

International application No.

PCT/SG2003/000276

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	0169575	AU	52900/01		
WO	03028004	US	2003089216		
US	6121530	EP	0944033	JP	11272274
US	5739451			JP	2000187671
WO	0150354	EP	1247214	US	6678680

END OF ANNEX